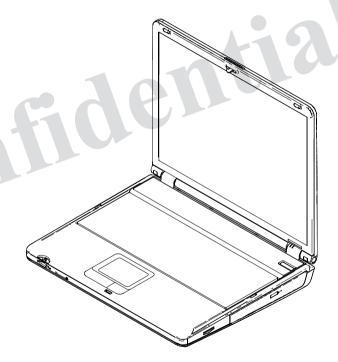
VGN-K30/K30B/K50B/K70B PCG-K20P/K24FP PCG-K215B/K295HP PCG-K74/K74S/K76P/K76SP

SERVICE MANUAL

Ver. 8 2005F

Revision History

Area	Model	Lineup	
		VGN-K30	
Japanese	Japanese	VGN-K30B	
Japanese	Japanese	VGN-K50B	
		VGN-K70B	
American	US Canadian	PCG-K20P	⚠ [MA]
Anchean	Latin	PCG-K24FP	<u>⅓</u> [MA]
European	AEP/UK	PCG-K215B	_
Latopean	ALI /OK	PCG-K295HP	<u>∕</u> 2 [MA]
	International	PCG-K74	
Asian/Oceania/	International	PCG-K76P	<u></u> (MA)
South Africa	Thai	PCG-K74S	<u>∕</u> 5 [MA]
	mai	PCG-K76SP	





- Design and specifications are subject to change without notice.
- ・本機の仕様および外観は、改良のため予告なく変更することがありますが、ご了承ください。

PERSONAL COMPUTER



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Caution Markings for Lithium/Ion Battery - The following or similar texts shall be provided on battery pack of equipment or in both the operating and the service instructions.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

CAUTION: The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 100°C (212°F) or incinerate. Dispose of used battery promptly. Keep away from children.

CAUTION: Changing the back up battery.

- Overcharging, short circuiting, reverse charging, multilati on or incineration of the cells must
 be avoided to prevent one or more of the following occurrences; release of toxic materials,
 release of hydrogen and/or oxygen gas, rise in
 surface temperature.
- If a cell has leaked or vented, it should be replaced immediately while avoiding to touch it without any protection.

Service and Inspection Precautions

1. Obey precautionary markings and instructions

Labels and stamps on the cabinet, chassis, and components identify are as requiring special precautions. Be sure to observe these precautions, as well as all precautions listed in the operating manual and other associated documents.

2. Use designated parts only

The set's components possess important safety characteristics, such as noncombustibility and the ability to tolerate large voltages. Be sure that replacement parts possess the same safety characteristics as the originals. Also remember that the \triangle mark, which appears in circuit diagrams and parts lists, denotes components that have particularly important safety functions; be extra sure to use only the designated components.

3. Always follow the original design when mounting parts and routing wires

The original layout includes various safety features, such as inclusion of insulating materials (tubes and tape) and the mounting of parts above the printer board. In addition, internal wiring has been routed and clamped so as to keep it away from hot or high-voltage parts. When mounting parts or routing wires, therefore, be sure to duplicate the original layout.

4. Inspect after completing service

After servicing, inspect to make sure that all screws, components, and wiring have been returned to their original condition. Also check the area around the repair location to ensure that repair work has caused no damage, and confirm safety.

5. When replacing chip components...

Never reuse components. Also remember that the negative side of tantalum capacitors is easily damaged by heat.

6. When handling flexible print boards...

- The temperature of the soldering-iron tip should be about 270°C.
- Do not apply the tip more than three times to the same pattern.
- Handle patterns with care; never apply force.

Caution: Remember that hard disk drives are easily damaged by vibration. Always handle with care.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANSCE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

Confidential

VGN-K30/K30B/K50B/K70B (J)
PCG-K20P/K24FP (AM)
PCG-K215B/K295HP (EU)
PCG-K74/K74S/K76P/K76SP (AO)

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					(to 5-2)
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		(to 2-1)			
CHAPTER 3.	FRAME HARNESS DIAGRAM	3-1			
		(to 3-1)			
CHAPTER 4.	EXPLODED VIEWS AND PARTS LIST				History of the changes is shown as the "Revision
Palmrest					History at the end of this data.
P-1		4-2			Thistory at the end of this data.
Main Board					変更履歴は、"Revision History"として、本データ末に記
M-1		4-4			
Bottom					載してあります。
B-1		4-6			
Hood Keyboard					
Н-1		4-8			
LCD					
L-1. 15-incl	h XGA (High Brightness) -Made by AUO	4-10			
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L-3. 15-incl	h XGA -Made by AU-	4-14			
Accessories					
A-1		4-16			
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		(to 4-17)			

CHAPTER 1. **SPECIFICATIONS**

1-1. Specifications

	T				1			
		•	J		A	M		
	VGN-K70B	VGN-K50B	VGN-K30B	VGN-K30	PCG-K20P	PCG-K24FP		
CPU	P4-2.8GHz	Cel-2.5GHz	Cel-2.5GHz	Cel-2.5GHz	Cel-2.5GHz	P4-2.8GHz		
Graphic	RADEON IGP							
Grapriic	345M	345M	345M	345M	345M	345M		
LCD	15"XGA	15"XGA	15"XGA	15"XGA	15"XGA	15"XGA		
LOD	(Hight Brightness)							
HDD	60GB	60GB	40GB	40GB	30GB	40GB		
OPT-DRIVE	DVD+/-RW	DVD+/-RW	DVD+/-RW	DVD+/-RW	CD-RW/DVD-ROM	CD-RW/DVD-ROM		
MEMORY	256MB x1	256MB x1	256MB x1	256MB x 1	256MB x 1	256MB x 2		
QUANTITY [MAX]	1GB	1GB	1GB	1GB	1GB	1GB		
AC adaptor	PCGA-ÅC19V9	PCGA-ÅC19V9	PCGA-ÅC19V9	PCGA-ÅC19V9	PCGA-ÅC19V9	PCGA-ÅC19V9		
Battery	PCGA-BP2NY	PCGA-BP2NY	PCGA-BP2NY	PCGA-BP2NY	PCGA-BP2NY	PCGA-BP2NY		
internal W-LAN	×	×	×	×	0	0		
OS	WinXP Home	WinXP Home	WinXP Home	WinXP Home	WinXP Pro	WinXP Pro		

⚠ [MA] ③ [MA]

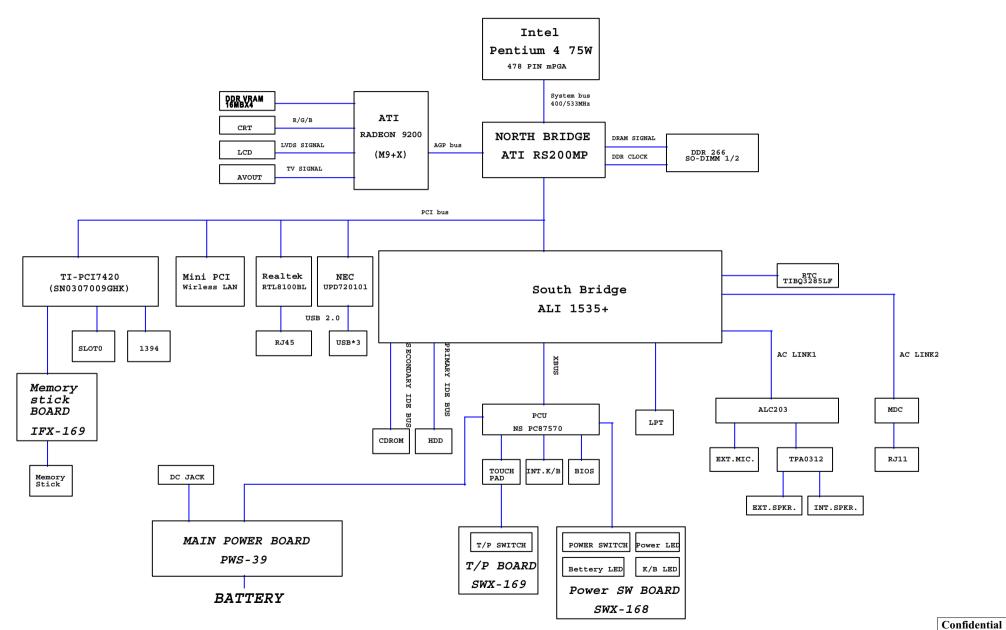
♠ [COR] PCGA-AC19V7

	E	U		A	0					
	PCG-K295HP	PCG-K215B	PCG-K76P	PCG-K74	PCG-K76SP	PCG-K74S				
CPU	MobileP4-2.8GHz	Cel-2.8GHz	MobileP4-3.06GHz	P4-2.8GHz	MobileP4-3.06GHz	P4-2.8GHz				
Graphic	RADEON IGP	RADEON IGP	RADEON	RADEON IGP	RADEON	RADEON IGP				
Grapriic	345M	345M	9200(64MB)	345M	9200(64MB)	345M				
LCD	15"XGA	15"XGA	15"XGA	15"XGA	15"XGA	15"XGA				
LOD	(Hight Brightness)	(Hight Brightness)	(Hight Brightness)	13 AGA	(Hight Brightness)	13 AGA				
HDD	60GB 40GB 60GB		60GB	40GB	60GB	40GB				
OPT-DRIVE	CD-RW/DVD-ROM	DVD+/-RW	DVD+/-RW	CD-RW/DVD-ROM	DVD+/-RW	CD-RW/DVD-ROM				
MEMORY	256MB x 2	256MB x 2	256MB x 2	256MB x 1	256MB x 2	256MB x 1				
QUANTITY [MAX]	1GB	1GB	1GB	1GB	1GB	1GB				
AC adaptor	PCGA-AC19V7	PCGA-AC19V7	PCGA-AC19V9	PCGA-AC19V7	PCGA-AC19V9	PCGA-AC19V7				
Battery	PCGA-BP2NX	PCGA-BP2NX PCGA-BP2NY		PCGA-BP2NY	PCGA-BP2NY	PCGA-BP2NY				
internal W-LAN	0	×	0	×	0	×				
OS	WinXP Pro	WinXP Home	WinXP Pro	WinXP Home	WinXP Pro	WinXP Home				

[•] The trademarks of registered trademarks of above table, refer to page 2.

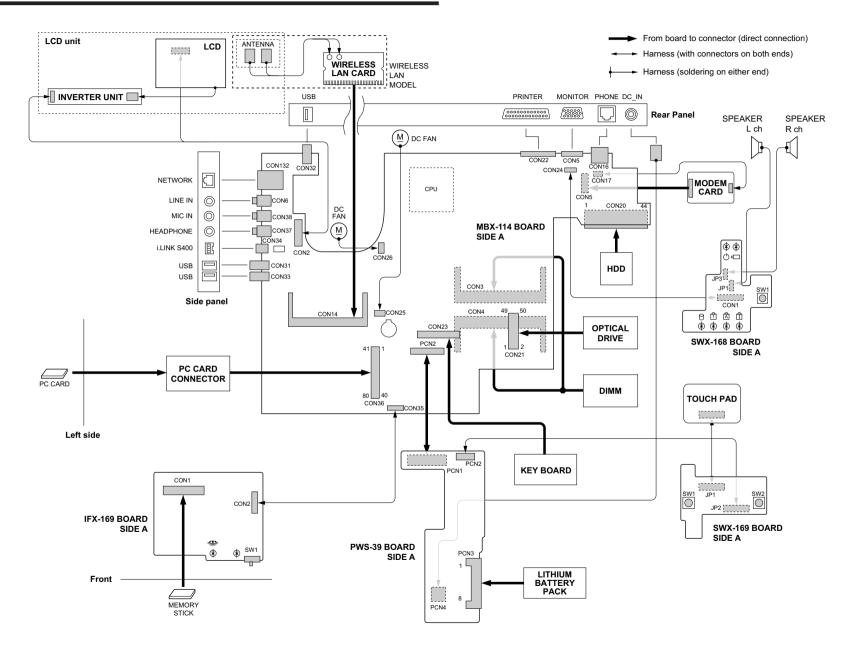
[・]本表中の商標・登録商標については、2ページをご参照ください。

CHAPTER 2. BLOCK DIAGRAM



CHAPTER 3.

FRAME HARNESS DIAGRAM



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CHAPTER 4.

EXPLODED VIEWS AND PARTS LIST

- The parts list is compiled by blocks of a palmrest and bottom etc.
 The sections of the parts list are different depending on the model.
 Please refer to list of contents shown in the below.
- 分解図と部品表は、バームレスト、ボトムなどのブロックごとに分かれています。機種によって部品表のセクションが異なりますので、詳細は右下の一覧表を参照してください。

Section Page	
Palmrest	
P-1	
Main Board	
M-1	
Bottom	
B-1	
Hood Keyboard	
H-1	
LCD	
L-1. 15-inch XGA (High Brightness) -Made by AUO 4-10	
L-2. 15-inch XGA (High Brightness) -Made by QDI 4-12	
L-3. 15-inch XGA -Made by AU	
Accessory	
A-14-16	
DIP Switch 4-17	⚠ [ADD]

NOTE:

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- When two or more parts are shown, use the part described first as the main part.
- The parts marked " \$ " are the High Value Modules (HVM).
- The parts marked "#" are the parts on which barcode label is attached.
 For the barcode label, refer to CHAPTER 5.
- The parts marked "&" are the "Customer Replacable Parts (CRP)" that can be replaced by Field Customer Support.

 Especially the parts with the <&> mark require the special attention to

Especially the parts with the <&> mark require the special attention to use them. Here fore, check first whether the desired part is one of the targetted parts of the Customer Replaceable Parts (CRP), or the non-targetted parts by referring to the exploded view.

The components identified by mark △ or dotted line with mark △are critical for safety. Replace only with part number specified.

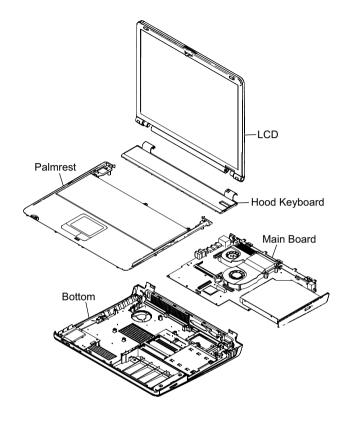
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

【使用上の注意】

- ・*印の部品は常備在庫しておりません。
- ・ 図面番号のない部品は供給しません。
- 併記部品の場合、上部記載部品をメイン部品として使用してください。
- ・ 部品名称の前に\$印のついた部品は、High Value Module (HVM) です。
- 商品名称の前に#印のついた部品は、バーコードラベル貼付部品です。
 バーコードラベルについてはCHAPTER 5を参照してください。
- ・ 部品名称の前に&印のついた部品は、お客様窓口などでも交換可能なCustomer Replacable Part (CRP) です。

特に〈&〉のついた部品は、使い分けが必要な部品ですので、分解図でCustomer Replacable Parts対象部品か、対象外部品かを必ず御確認ください。

△印の部品、または△印付きの点線で囲まれた部品は、 安全性を維持するために重要な部品です。従って交換時は、必ず指定の部品を使用して下さい。



Hood Keyboard LCD

Accessorv

ı		1	man Board	Dotto	i lood Hoyboara	202	, 1000000, j
	K70B	P-1	M-1	B-1	H-1	L-1	A-1
١.	K50B	P-1	M-1	B-1	H-1	L-1	A-1
J	K30B	P-1	M-1	B-1	H-1	L-1	A-1
	K30	P-1	M-1	B-1	H-1	L-1	A-1
	K20P	P-1	M-1	B-1	H-1	L-1	A-1
AM	K24FP P-1	P-1	M-1	B-1	H-1	L-2	A-1
EU	K295HP	P-1	M-1	B-1	H-1	L-2	A-1
LU	K215B	P-1	M-1	B-1	H-1	L-2	A-1
	K76P	P-1	M-1	B-1	H-1	L-2	A-1
1	K74	P-1	M-1	B-1	H-1	L-3	A-1
AO	K76SP	P-1	M-1	B-1	H-1	L-2	A-1
	K74S	P-1	M-1	B-1	H-1	L-3	A-1

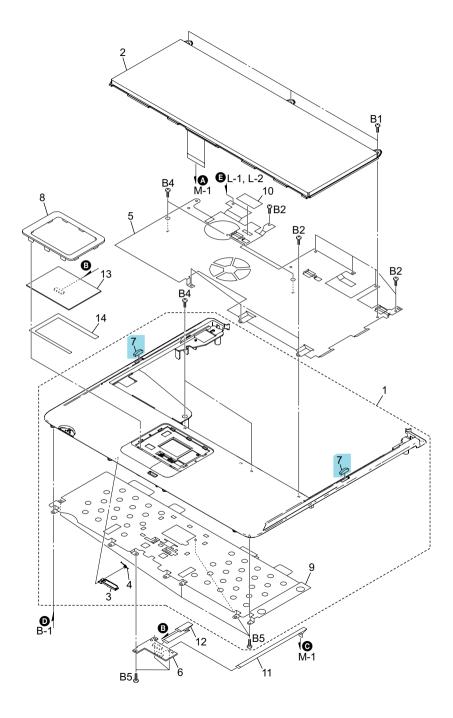
Main Board Bottom

Palmrest

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VGN-K30/K30B/K50B/K70B (J)
PCG-K20P/K24FP (AM)
PCG-K215B/K295HP (EU)
PCG-K74/K74S/K76P/K76SP (AO)

P-1. Palmrest



P-1. Palmrest

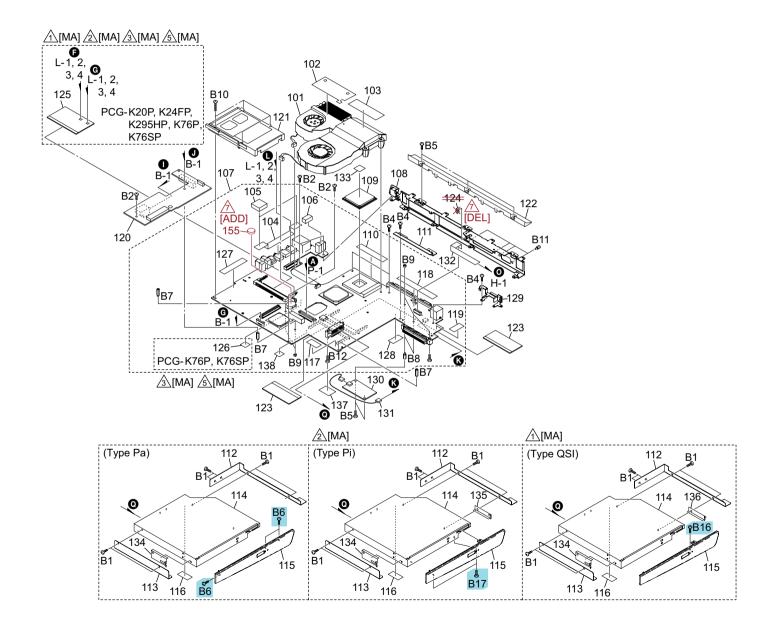
* !	1 3 4	Part No. X-2021-949-1 4-681-301-01 4-676-233-01 4-681-336-01 A-8068-709-A	\$	Description HOUSING PALMREST ASSY JE22 LATCH DETECTOR SPRING LATCH DETECTOR BRACKET KEYBOARD COMPLETE PWB SWX-169
9	7 8 9 10 11	4-681-295-01 4-681-296-01 X-2021-524-1 2-022-446-01 1-827-192-11	&	CUSHION PALMREST ESCUTCHEON TOUCHPAD BRACKET TOUCHPAD ASSY MYLAR BRACKET K/B NE5.1 FFC (PWS-TP)
	12 13 14	1-829-140-11 1-796-319-51 2-109-665-01		FFC (TO T/P) PAD, TOUCH TAPE TOUCH PAD
İ	B2	4-216-272-01 4-641-726-12 4-641-726-41 4-665-205-01		SCREW (M2), + SCREW (M2), SPECIAL HEAD SCREW (M2), SPECIAL HEAD SPECIAL FLAT HEAD (EG GRIP), M2

			J				AM		EU		AO		0	\neg
	Ref. No. Part No.	Description	K70B	K50B	K30B	0EX	K20P	K24FP	K295HP	K215B	49/X	K74	K76SP	K74S
	2 1-478-597-41	KEYBOARD UNIT(JP)	•	•	•	•								
	1-478-597-11	KEYBOARD UNIT(US)	Ī	1	1		•		1		•	•		
[MA]	1-478-597-31	KEYBOARD UNIT(TH)	Ī	1	1				1				•	•
∠ → → → → → → → → → → → → → → → → → →	1-478-598-11	(UK)KEYBOARD UNIT(GB)	Ī	1	1				•	•				
∠ [MA]	1-478-598-22	(German)KEYBOARD UNIT(DE)	Ī	1	1				•	•				
∠ [MA]	1-478-598-41	(French)KEYBOARD UNIT(FR)	Ī	1	1				•	•				
∠ [MA]	1-478-598-52	(Italian)KEYBOARD UNIT(IT)							•	•				
	1-478-598-71	KEYBOARD UNIT(LA)						•						

					<u>3</u>		
[MA]	[MA]	[MA]	[MA]	[MA]	[MA]	[MA]	[MA]

- This parts list contains two different types of parts.
 The first type is the parts that are common to all models.
 The other type is the parts that are different depending on each model.
- この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。

M-1.Main Board



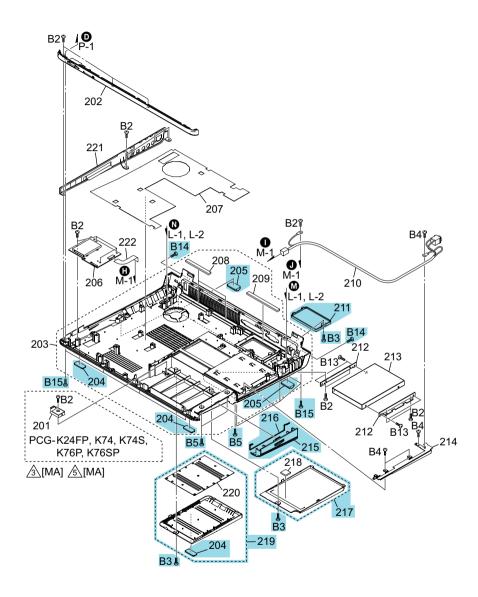
M-1. Main Board

Ref. No.		\$	Description COOLING UNIT (S)
102	2-022-437-01	*	MYLAR COOLING LEFT
103	2-022-438-01		MYLAR COOLING RIGHT
104	2-022-440-01		CUPPER TAPE
105	2-022-439-01		GASKET LAN
106	2-022-441-01		GASKET USB REAR
			I/O BRACKET ASSY
			CUSHION COOLING BTM GUIDE DRIVE
* 112	2-159-394-01		BRACKET DRIVE R JE2
* 112	4 674 020 01		BRACKET (DRIVE) (L)
			INSULATOR DRIVER
	-		KAPTON TAPE
118	_		KAPTON TAPE
119	-		KAPTON TAPE
120	A-8068-707-A	\$	COMPLETE PWB PWS-39
121	1-818-420-11		CONNECTOR, PC CARD
122	4-681-305-01		COVER HOOD
	4-681-359-01		PLATE GND USB
127	-		KAPTON TAPE
128	-		KAPTON TAPE
			PLATE DC
			CARD, MODEM
			HARNESS 2PIN
132	1-029-139-11		FFC (POWER SWITCH)
133	4-668-785-02		THERMAL SHEET CPU
	4-670-244-01		SPRING DRIVE R
			KAPTON TAPE
			SHEET MEMORY
155	1-756-148-11		SECONDARY, BATTERY LITHIUM
R1	4-216-272-01		SCREW (M2), +
			SCREW (M2), SPECIAL HEAD
B4			SCREW (M2), SPECIAL HEAD
B5			SPECIAL FLAT HEAD (EG GRIP), M2
В6	4-645-177-01		SCREW (M1.7X3.5)
В7	4-673-121-01		SCREW PWS
B8	4-651-989-41		SPACER (MBX)
			NUT M2 TYPE2
			GRIP, M2 EG
BIII	4-035-900-21		SCREW (HEX)
B12	7-621-772-50		SCREW +B 2X10
B16	4-679-805-01		SCREW (B1.7), TAPPING
В17	4-679-805-11		SCREW (B1.7), TAPPING
	101 102 103 104 105 106 108 110 * 111 * 112 * 113 116 117 118 119 120 121 122 124 127 128 * 129 130 131 131 132 133 134 137 138 155 155 165 175 186 187 188 188 189 181 181 181 181 181 181 181	102 2-022-437-01 103 2-022-438-01 104 2-022-440-01 105 2-022-439-01 106 2-022-441-01 108 X-4626-731-1 110 2-022-442-01 * 111 4-674-030-01 * 112 2-159-394-01 * 113 4-674-029-01 116 2-022-448-01 117 - 118 - 119 - 120 A-8068-707-A 121 1-818-420-11 122 4-681-305-01 124 4-681-305-01 127 - 128 - * 129 4-681-361-01 129 4-681-361-01 130 1-761-606-14 131 1-962-643-21 132 1-829-139-11 133 4-668-785-02 134 4-670-244-01 137 - 138 2-176-399-01 155 1-756-148-11 B1 4-216-272-01 B2 4-641-726-12 B4 4-641-726-12 B4 4-641-726-12 B5 4-665-205-01 B6 4-659-805-01 B7 4-673-121-01 B8 4-665-205-01 B6 4-645-177-01 B7 4-673-121-01 B8 4-665-205-01 B6 4-645-989-91 B1 4-635-966-21 B12 7-622-05-05 B10 4-635-966-21	101 A-1055-864-A \$ 102 2-022-437-01 103 2-022-438-01 104 2-022-4430-01 105 2-022-4439-01 106 2-022-441-01 108 X-4626-731-1 110 2-022-442-01 111 4-674-030-01 111 2-159-394-01 112 2-159-394-01 113 4-674-029-01 116 2-022-448-01 117 - 118 - 119 - 120 A-8068-707-A \$ 121 1-818-420-11 122 4-681-305-01 127 - 128 - 129 4-681-369-01 127 - 128 - 129 4-681-361-01 130 1-761-606-14 131 1-962-643-21 132 1-829-139-11 133 4-668-785-02 134 4-670-244-01 137 - 138 2-176-399-01 155 1-756-148-11 B1 4-216-272-01 B2 4-641-726-12 B4 4-641-726-12 B4 4-641-726-11 B7 4-673-121-01 B8 4-651-989-41 B9 7-622-205-05 B10 4-635-966-21 B12 7-621-772-50 B16 4-679-805-01

				_		_ A	N 4	E					_
			_	_		Α	_		_		Α	_	_
		K70B	K50B	K30B	K30	K20P	诰	3.E	2B	K76P	K74	SS	K74S
	Ref. No. Part No. Description	K7	55	K3	X	2	K24FP	<295HP	K215B	Ϋ́	Z	K76SP	7
⚠ [MA]	107 A-1059-372-A \$ # COMPLETE PWB MBX-114 EXT JE22						Ē	×	-	_		Ì	_
لحبر المالح	A-1059-370-A \$ # COMPLETE PWB MBX-114 INT JE22												
△ [MA]	109 6-803-979-01 IC RK80532GE072512SL725	Ť	Ť	Ť	Ť	Ť	Ť	÷	Ť		_		Ť
	6-705-841-01 IC RK80532GE083512SL726					ļ		<u>-</u>		•		•	
2-3 [IVIA]	6-704-665-01 IC RK80532PE072512SL6PF	_				ļ	•			<u>.</u>	•		
	6-705-769-01 IC RK80532RC072128SL77T					ļ	<u>.</u> .					, <u> </u>	
ZZZ [IVIA]	6-705-945-01 IC RK80532RC072128SL771												
⚠ [MA]	114 1-796-941-11 \$ # COMBO DRIVE (SBW-242C) (QSI)		Ť	Ť	Ť	-	•	•			•		_
MA]	1-796-834-12 \$ # W-DVD (DVR-K12D) (Pi)					ļ. <u></u>	<u></u>						
[1411/4]	1-796-904-11 \$ # DVD+-RW (UJ-820) (Pa)			•	•	·				-		•	
	115 X-4626-610-1 ASSY PAN BEZEL (Pa)	•	•	÷	•					÷		•	-
	X-4626-607-1 ASSY PIO DVD-RW BEZEL (Pi)				···-	·			•	···			
<u> </u>	X-4626-608-1 ASSY QSI DVD-RW BEZEL (QSI)					•	•	•			•		•
MA]	123 6-600-158-01 IC HYS64D32020GDL-7-B					Ť	Ť	Ť	•		Ť	\dashv	Ť
[IVII 1]	6-705-094-01 IC M470L3224FT0-CB3	•	-	•	•	•	•			•	•	•	-
	125 1-761-884-21 CARD, WIRELESS LAN	Ť	Ť	Ť	_	Ť	Ť	•		•	_	•	Ť
⚠ [MA]	1-761-884-32 CARD. WIRELESS LAN					•	•						
[MA]	126 2-022-443-01 VGA HEATSINK					Ė	Ė			•		•	-
№ [MA]	135 4-682-593-01 SPRING DRIVE R								•			\neg	-
⚠ IMAI	136 4-677-259-01 SPRING DRIVE L					•	•	•			•		•
			_			_	_	_	_	^	_	_	_
						<u>/1</u> \	<u>/3\</u>	<u>/2\</u>			⅓	<u> </u>	<u>∕5\</u>
						MA	[MA]	[MA]	[MA]	MA	MA	[MA]	MAJ
						2	2	2	2	≥	2	2	2

- This parts list contains two different types of parts. The first type is the parts that are common to all models. The other type is the parts that are different depending on each model.
- この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。
- When change the CPU (ref. 209), refer to "Replacing the CPU" in CHAPTER 5.
- CPU (Ref. 209) を交換する際には、CHAPTER 5の「Replacing the CPU」をご参照下さい。

B-1. Bottom



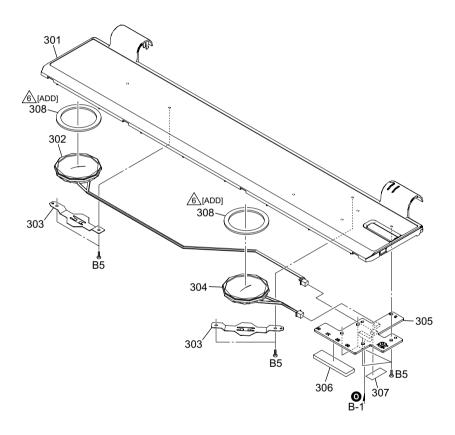
B-1. Bottom

203 204 205	2. Part No. X-4626-606-1 4-681-313-01 4-674-041-01 A-8068-710-A 4-681-340-01		Description HOUSING BOTTOM ASSY JE21 FOOT FOOT REAR COMPLETE PWB IFX-169 (WL) HEATSINK BOTTOM INSULATION
208 209 210 211 * 212	2-022-444-01 2-022-445-01 1-962-775-11 4-681-314-01 4-674-033-01	&	GASKET HOUSING BTM1 GASKET HOUSING BTM2 HARNESS (WITH DC JACK, 2P) COVER MODEM BRACKET HDD
* 214 215 216 217 218	4-682-482-01 4-681-318-01 4-681-337-01 X-2021-163-1 2-022-449-01	&	BRACKET HOLDER PW CABLE DOOR BATTERY BATTERY DOOR LINK COVER HDD ASSY SPONGE COVER HDD
219 220 221 222	X-4626-734-2 4-682-977-01 4-681-328-01 1-862-478-11	&	COVER MEMORY ASSY INSULATOR MEMORY ESCUTCHEON LEFT FPC (MEMORY STICK)
B1 B2 B3 B4 B5	4-216-272-01 4-641-726-12 4-672-834-31 4-641-726-41 4-665-205-01		SCREW (M2), + SCREW (M2), SPECIAL HEAD SCREW, +B EG GRIP SCREW (M2), SPECIAL HEAD SPECIAL FLAT HEAD (EG GRIP), M2
B13 B14 B15	4-635-301-01 4-673-655-01 4-644-637-01		SCREW M3X4 SCREW +B GRIP, M2 EG

ſ	J			AM		Е	U		Α	0			
	Ref. No. Part No. Description	K70B	K50B	K30B	K30	K20P	K24FP	K295HP	K215B	K76P	K74	K76SP	K74S
	201 4-682-480-01 HI RATE BATTERY STOPPER						•			•	•	•	•
	202 X-4626-732-1 ESCUTCHEON FRONT ASSY	•	•	•	•				•		•		•
	X-4626-733-1 ESCUTCHEON FRONT WL ASSY					•	•	•		•		•	
	213 A-1062-141-A \$ # HDD (MHT2040AT-40GB-A) (S)			•	•		•		•		•	[•
	A-1065-502-A \$ # ASSY HDD 60GB (-21) (I,40) (S)	•	•					•		•		•	
⚠ [MA]	A-1065-504-A \$ # ASSY HDD 30GB (-21) (I,40) (S)					•							
						[MA]	[MA]	[MA]	[MA]	[MA]	[MA]	[MA]	[MA]

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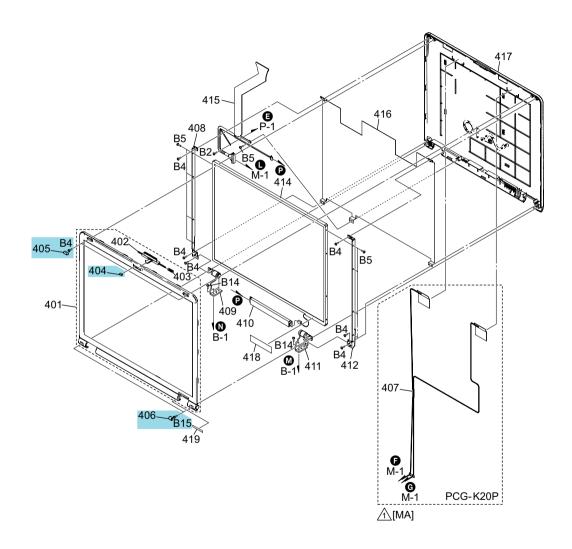
H-1. Hood Keyboard



H-1. Hood Keyboard

301 X-2021-950-1 HOOD KB ASSY JE22
302 1-825-825-21 SPEAKER (3.2CM)
* 303 4-681-308-01 BRACKET SPK
304 1-825-825-11 SPEAKER (3.2CM)
305 A-8068-706-A \$ COMPLETE PWB PWB SWX-168
306 2-022-447-01 GASKET PW BOARD
307 - KAPTON TAPE
DD] 308 2-318-491-01 SPEAKER CUSHION
307 - KAPTON TAPE

L-1. LCD 15-inch XGA (High Brightness)
- Made by AUO -



L-1. LCD 15-inch XGA (High Brightness) – Made by AUO –

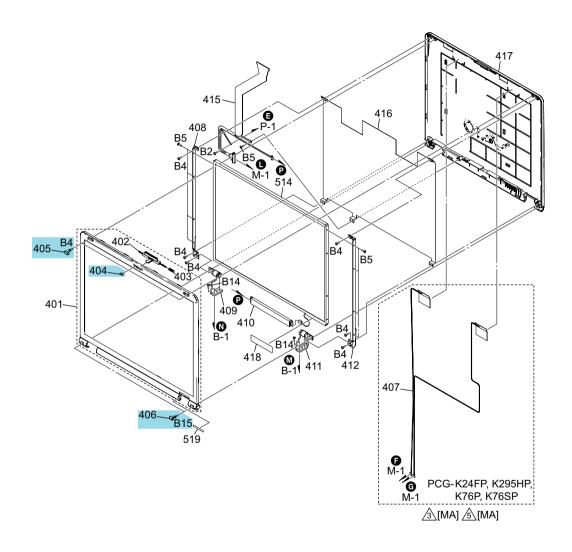
	401 402 403 404	Part No. X-2021-951-1 4-681-309-01 4-681-352-01 4-681-353-01 4-681-354-01			Description BEZEL DISPLAY ASSY BUTTON LATCH LCD SPRING LATCH LCD CUSHION LATCH CUSHION LCD
*	408 409 410	4-681-355-01 4-681-348-01 4-681-356-01 1-476-317-21 4-681-357-01		&	CUSHION HINGE BRACKET LCD SPWG L HINGE L INVERTER UNIT HINGE R
*	414 415 416 417	4-681-347-01 A-8119-699-A 1-962-630-11 4-681-351-01 X-4626-728-1	\$ #		BRACKET LCD SPWG R ASSY LCD 15XGA (AUO) (S) HARNESS, LCD (15XGA) LCD SHIELDING HOUSING DISPLAY ASSY
	B4	4-641-726-12 4-641-726-41 4-665-205-01		<&>	KAPTON TAPE SCREW (M2), SPECIAL HEAD SCREW (M2), SPECIAL HEAD SPECIAL FLAT HEAD (EG GRIP), M2
		4-673-655-01 4-644-637-01		&	SCREW +B

	D-f N-	D-+N-	Description	K70B	K50B	K30B	K30	K20P
	Ret. No.	Part No.	Description					
	407	1-754-326-11	DUAL BAND ANTENNA (HBLACK)					•
<u> </u>	419	2-067-073-01	ID LABEL	•			L	LI
		2-067-073-11	ID LABEL	L	•		L	LI
		2-067-073-21	ID LABEL			•		
		2-067-073-31	ID LABEL				•	
⚠ [MA]		2-067-584-21	ID LABEL (U)					•

[MA]

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L-2. LCD 15-inch XGA (High Brightness)
- Made by QDI -



△ [MA]

Confidential

VGN-K30/K30B/K50B/K70B (J)

PCG-K20P/K24FP (AM)

PCG-K215B/K295HP (EU)

PCG-K74/K74S/K76P/K76SP (AO)

L-2. LCD 15-inch XGA (High Brightness) - Made by QDI -

401 402 403					Description BEZEL DISPLAY ASSY BUTTON LATCH LCD SPRING LATCH LCD CUSHION LATCH CUSHION LCD
406 * 408 409 410 411	4-681-355-01 4-681-348-01 4-681-356-01 1-476-317-21 4-681-357-01			&	CUSHION HINGE BRACKET LCD SPWG L HINGE L INVERTER UNIT HINGE R
* 412 415 416 417 418		¢	#		BRACKET LCD SPWG R HARNESS, LCD (15XGA) LCD SHIELDING HOUSING DISPLAY ASSY KAPTON TAPE ASSY LCD 15XGA (QDI) (S)
B2 B4 B5	4-641-726-12 4-641-726-41 4-665-205-01 4-673-655-01 4-644-637-01	φ	#	<&> &	SCREW (M2), SPECIAL HEAD SCREW (M2), SPECIAL HEAD SPECIAL FLAT HEAD (EG GRIP), M2 SCREW+B

			AM	E	U	A	0
			K24FP	<295HP	K215B	K76P	K76SP
^	Ref. No. Part No.	Description	X	쏲	x	_	X
∠≥ [MA]	407 1-754-326-11	DUAL BAND ANTENNA (HBLACK)	•	•		•	•
	519 2-103-569-01	ID LABEL (L)	•				
∠2 [MA]	2-067-585-01	ID LABEL (E)	I		•		
<u></u> [MA]	2-067-585-11	ID LABEL (E)	I	•			
	2-148-768-01	ID LABEL (GVD)		L	l	•	L
<u></u> [MA]	2-148-768-21	ID LABEL (GVD)					•
			A	Δ	A	A	A
			~	4	4	7	7
			[WA]	[MA]	[MA]	[MA]	[MA]
			_	_	_	_	_

• This parts list contains two different types of parts. The first type is the parts that are common to all models. The other type is the parts that are different depending on each model.

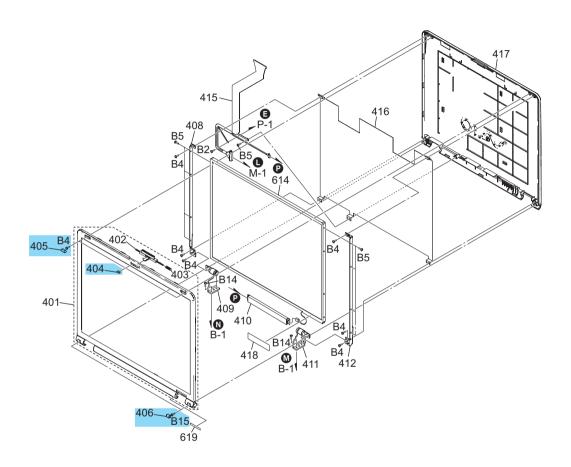
• この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。

△ [MA]

Confidential

VGN-K30/K30B/K50B/K70B (J) PCG-K20P/K24FP (AM) PCG-K215B/K295HP (EU) PCG-K74/K74S/K76P/K76SP (AO)

L-3. LCD 15-inch XGA – Made by AU –



Confidential

VGN-K30/K30B/K50B/K70B (J)

PCG-K20P/K24FP (AM)

PCG-K215B/K295HP (EU)

PCG-K74/K74S/K76P/K76SP (AO)

L-3. LCD 15-inch XGA - Made by AU -

402 402 403	4-681-309-01 4-681-352-01 4-681-353-01			Description BEZEL DISPLAY ASSY BUTTON LATCH LCD SPRING LATCH LCD CUSHION LATCH CUSHION LATCH CUSHION LCD
406 * 408 409 410 411	4-681-348-01 4-681-356-01 1-476-317-21		&	CUSHION HINGE BRACKET LCD SPWG L HINGE L INVERTER UNIT HINGE R
	1-962-630-11 4-681-351-01 X-4626-728-1			BRACKET LCD SPWG R HARNESS, LCD (15XGA) LCD SHIELDING HOUSING DISPLAY ASSY KAPTON TAPE
614	A-8115-791-A	\$ #		ASSY LCD 15XGA (AU) (S)
B5	4-641-726-41 4-665-205-01 4 4-673-655-01		<&> &	SCREW (M2), SPECIAL HEAD SCREW (M2), SPECIAL HEAD SPECIAL FLAT HEAD (EG GRIP), M2 SCREW +B GRIP, M2 EG

				A	0
	Ref. No	o. Part No.	Description	K74	K74S
③ [MA]	619	2-148-768-11	ID LABEL (GVD)	•	
<u></u> [MA]		2-148-768-31	ID LABEL (GVD)		•
				<u></u>	MA]

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- この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。



Confidential

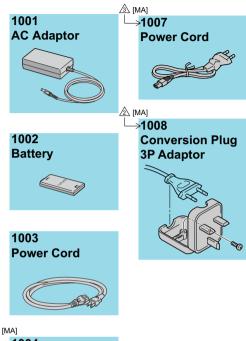
VGN-K30/K30B/K50B/K70B (J)

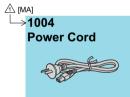
PCG-K20P/K24FP (AM)

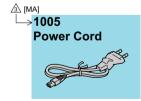
PCG-K215B/K295HP (EU)

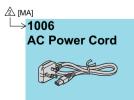
PCG-K74/K74S/K76P/K76SP (AO)

A-1. Accessories









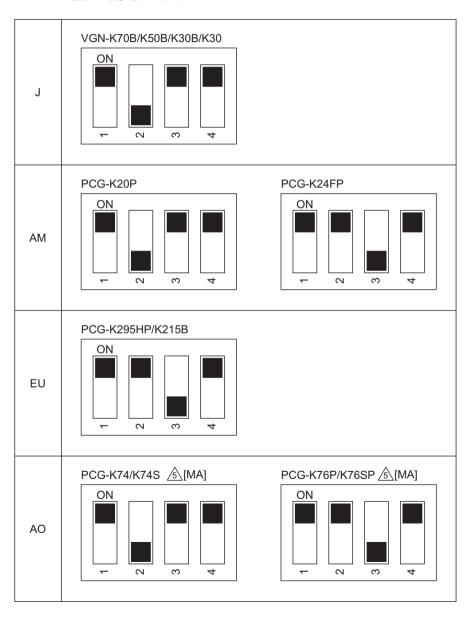
							J		Α	M	Е	U		Α	.0	
	Ref. No	. Part No.	Description		K70B	K50B	K30B	K30	K20P	K24FP	К295НР	K215B	K76P	K74	K76SP	K74S
	! 1001	1-478-390-72	\$ & ADAPTOR, AC										•		•	
		1-478-037-33	\$ & ADAPTOR, AC		•	•	•	•	•	•	•	•		•		•
	! 1002	A-8067-763-A	& BP2NX SNT(J)ASSY(S)		•	•	•	•								
,		A-8112-427-A	\$ & BP2NX SNT(U)ASSY (S)						•		•	•				
③ [MA]		A-8120-053-A	\$ & BP-2NY ASSY (S)							•			•	•	•	•
	! 1003	1-790-732-32	& CORD, POWER		•	•	•	•								
(MA) (MA) (MA) (MA)	! 1004	1-757-562-21	& CORD, POWER						•	•						
∠3 [MA]	! 1005	1-555-074-32	& CORD, POWER										•	•		
∠2 [MA]	! 1006	1-575-131-61	& CORD, POWER								•	•			•	•
	! 1007	1-823-935-51	& CORD, AC POWER										•	•		
∠	1008	1-770-019-12	& ADAPTOR, CONVERSION PLUG 3F)							•	•			ш	<u> </u>
	-	1-816-429-12	& (UK)PHONE PLUG (GB)								•	•			ш	<u> </u>
^	-	2-050-929-01	& CURTE, VAIO		•	•	•	•								L
<u>√1</u> [MA]	-	2-050-393-01	 & QUICK START		L				•	L	L					<u> </u>
↑ [MA] ③ [MA] ♠ [MA]	-	2-050-903-01	& QUICK START (LA)							•					ш	<u> </u>
<u>/2</u> [MA]	-	2-050-526-01	& GETTING STARTED BOOKLET								•	•			ш	Ш
<u> </u>	-	2-050-521-11	 & (UK)HW SPECS		L				L	L	•	•				l
② [MA] ② [MA]	-	2-050-521-21	 & (German)HW SPECS		L				L	L	•	•				<u> </u>
<u>/2</u> \ [MA]	-	2-050-521-31	 & (French)HW SPECS		L				L	L	•	•				<u> </u>
	-	2-050-521-41	& (Italian)HW SPECS								•	•			ш	<u></u>
	-	2-048-421-01	& MANUAL, INSTRUCTION		•	•	•	•							ш	<u></u>
	-	2-059-978-11	& MANUAL (XP), INSTRUCTION										•	•	•	•

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DIP Switch

- The DIP switch setting is following table.
- ・DIPスイッチの設定は下の表をご参照ください。

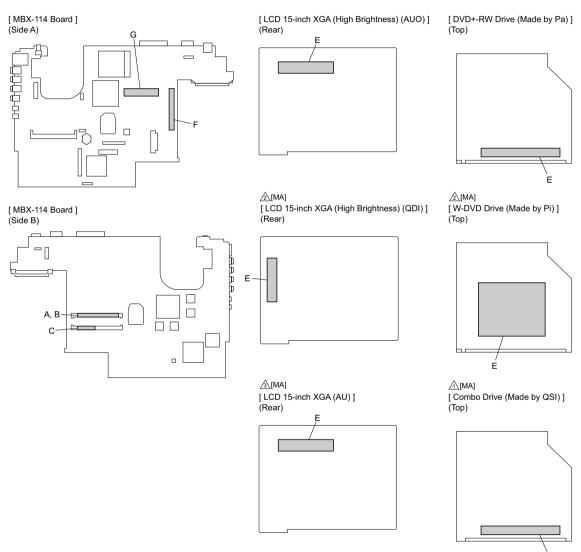


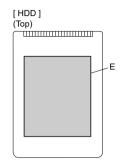
CHAPTER 5. OTHER

5-1. The Barcode Label

The hatched portion of the barcode is used as the repair data.

バーコードラベルの網掛け部は、修理データとして使用いたします。





A : Part No.
B : Serial No.
C : Revision No.
D : Product Code
E : Maker Barcode
G : Mac Address
: Barcode

Confidential

VGN-K30/K30B/K50B/K70B (J)
PCG-K20P/K24FP (AM)
PCG-K215B/K295HP (EU)
PCG-K74/K74S/K76P/K76SP (AO)

5-2. Replacing the CPU

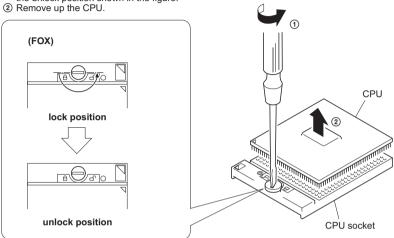
Note: We have two kinds of CPU for this set, and either of them is used.

Two kinds of CPU have differences in the lock position and the unlock position.

1. Socket configuration 1

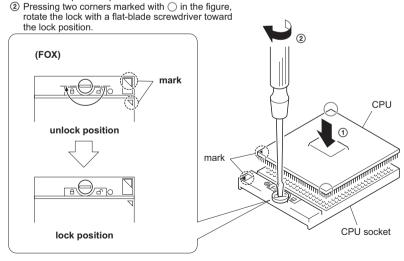
1. How to remove the CPU

① Rotate the lock with a flat-blade screwdriver toward the unlock position shown in the figure.



2. How to install the CPU

① Position the mark on the CPU to the mark on the CPU socket and put in all pins to the holes on the CPU socket.

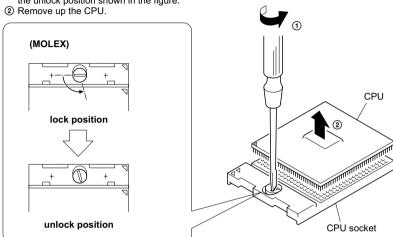


Note: Lock the CPU properly, or operation becomes unstable.

2. Socket configuration 2

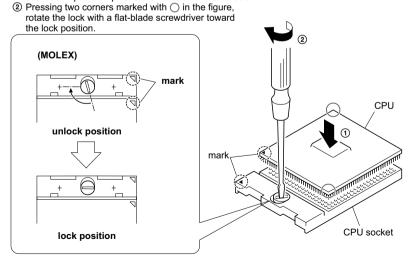
1. How to remove the CPU

① Rotate the lock with a flat-blade screwdriver toward the unlock position shown in the figure.



2. How to install the CPU

Position the mark on the CPU to the mark on the CPU socket and put in all pins to the holes on the CPU socket.



Note: Lock the CPU properly, or operation becomes unstable.

Confidential

VGN-K30/K30B/K50B/K70B (J)

PCG-K20P/K24FP (AM)

PCG-K215B/K295HP (EU)

PCG-K74/K74S/K76P/K76SP (AO)



VGN-K30/K30B/K50B/K70B (J) PCG-K20P/K24FP (AM) PCG-K215B/K295HP (EU) PCG-K74/K74S/K76P/K76SP (AO)

List of K Series (PCG & VGN) (As of June, 2005)

Service Manual		Mode	l Name	
Part No.	J	AM	EU	AO
		PCG-K12FP	PCG-K115B	PCG-K64
9-876-365-XX		PCG-K12P	PCG-K115M	PCG-K64S
		PCG-K13	PCG-K115S	PCG-K66P
		PCG-K13F	PCG-K115Z	PCG-K66SP
		PCG-K13Q	PCG-K195BP	
		PCG-K14	PCG-K195HP	
		PCG-K15		
		PCG-K15F		
		PCG-K17		
	VGN-K30	PCG-K20P	PCG-K215B	PCG-K74
9-876-371-XX	VGN-K30B	PCG-K24FP	PCG-K295HP	PCG-K74S
9-010-311-AA	VGN-K50B			PCG-K76P
	VGN-K70B			PCG-K76SP

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Revision History

Suffix	Ver.	Date		Contents	QM No.
-01	Ver. 1	2004.05.13	First Edition		
-02	Ver. 2	2004.05.28	A	Front Page (Model Lineup), Page 1-1, Page 4-1, Page 4-3 to 4-5, Page 4-7, Page 4-10 to 4-11, Page 4-16, Back Cover	N2004_058AK
-03	Ver. 3	2004.06.21	<u> </u>	Front Page (Model Lineup), Page 1-1, Page 4-1, Page 4-3 to 4-5, Page 4-7, Page 4-12 to 4-14, Page 5-1, Back Cover	N2004_063AK
-04	Ver. 4	2004.07.12	<u> </u>	Front Page (Model Lineup), Page 1-1, Page 4-1, Page 4-3 to 4-7, Page 4-12 to 4-16, Page 5-1, Back Cover	N2004_073AK
-05	Ver. 5	2004.07.15	4	Page 4-17	N2004_082CK
-06	Ver. 6	2004.08.09	<u>\$</u>	Front Page (Model Lineup), Page 1-1, Page 4-1, Page 4-3 to 4-7, Page 4-12 to Page 4-13, Page 4-15 to 4-17, Back Cover	N2004_092AK
-07	Ver. 7	2004.10.25	<u> </u>	Page 1-1, Page 4-8, Page 4-9	N2004_125CK
-08	Ver. 8	2005.06.03	A	Page 4-4, Page 4-5	N2005_020CK
<pam;< td=""><td></td><td></td><td></td><td></td><td></td></pam;<>					

<Remarks>